

Gold deposits of the Ukrainian Shields

GURSKY, D.S., KALININ, V.I. Geological Survey of Ukraine, Kyiv, Ukraine

In Ukraine as a result of geological mapping and prospecting the significant gold deposits were discovered for the last years. The main perspectives of gold mineralization are connected with Precambrian formations of the Ukrainian Shield, which is the main metallogenic province of Ukraine. The age of geological formations and features of gold bearing structures are similar to that in the highproduction Shields of the world: Canadian, West-Australian, Indostan, where more than 10 thousand tons of gold resources are located. More than 70% of gold reserves on that territories belong to ancient green-stone-granite structures.

Geological features and mineral composition of gold deposits of the Pridneprovie (Sergeevka, Balka Zolotaya, Balka Shyrokaya etc.) are similar to foreign deposits. However in the Ukrainian Shield the new type of gold deposits are found connected with tectono-metasomatic zones and structures of activization (Klintsy type).

Today there are known about 200 perspective zones of gold mineralization, the part from which can be considered as objects for the further study, and on 6 of them the investigation is conducted.